

# P/2 DA Series

VGA DISTRIBUTION AMPLIFIERS  
WITH STEREO AUDIO

- 350 MHz (-3dB) RGB video bandwidth, fully loaded
- Compatible with VGA-QXGA resolutions
- DDC signals and ID bits routed to local monitor output
- Internal universal power supply



P/2 DA6xi



P/2 DA8



P/2 DA12 A

The Extron P/2 DA Series are VGA distribution amplifiers with four, six, eight, or twelve outputs. They are suitable for applications where a single, high resolution computer-video signal must be split and distributed to multiple displays.



# Extron® Electronics

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## DESCRIPTION

The Extron **P/2 DA Series** are VGA distribution amplifiers with four, six, eight, or twelve outputs. Each unit accepts a single VGA input signal and actively splits it for distribution to multiple outputs. Offering 350 MHz (-3dB) of RGB video bandwidth, the P/2 DA Series is compatible with VGA-QXGA graphic cards, projectors and flat panel displays. Outputs are individually buffered and amplified to help maintain the original signal integrity and eliminate noise interference. ID bits are routed to output one for local monitor support. The P/2 DA Series is ideal for use in applications where one computer-video signal needs to be routed to multiple displays, such as rental and staging, courtrooms, conference rooms, and training facilities.

The **P/2 DA4xi** and **P/2 DA6xi** include a video gain switch which provides a signal boost to help maintain video signals integrity over long cable runs.

The **P/2 DA8** and **P/2 DA12** offer selectable input and output sync impedance. This provides better compatibility with a wide range of laptop types. These models also feature individual output muting via contact closure. This feature allows the user to mute any one or all outputs with simple pushbutton relay control, and eliminates the cost of an extra control system serial port.

The **P/2 DA8 A** and **P/2 DA12 A** have all the features of the **P/2 DA8** and **P/2 DA12** and add eight-output and twelve-output stereo distribution amplifiers, respectively. Both feature active PC audio buffering which converts unbalanced PC audio to balanced, line level signals, eliminating noise over long cable runs. Unbalanced stereo audio is input on 3.5 mm stereo mini jacks, while balanced or unbalanced stereo audio is output on captive screw connectors. Using pre-terminated cable assemblies, such as Extron's VGA with Audio Cables, eliminates crimping and makes installations faster and easier.

All **P/2 DA Series** models are housed in 1U high, rack-mountable enclosures. The **P/2 DA4xi** and **P/2 DA6xi** utilize a one-half rack width enclosure, while the **P/2 DA8** and **P/2 DA12** utilize a full rack width enclosure. All models are equipped with an internal, universal power supply for worldwide power compatibility.

## COMMON FEATURES

- 350 MHz (-3dB) RGB video bandwidth, fully loaded
- Compatible with VGA-QXGA resolutions
- DDC signals and ID bits routed to local monitor output
- Internal universal power supply

### P/2 DA4xi AND P/2 DA6xi

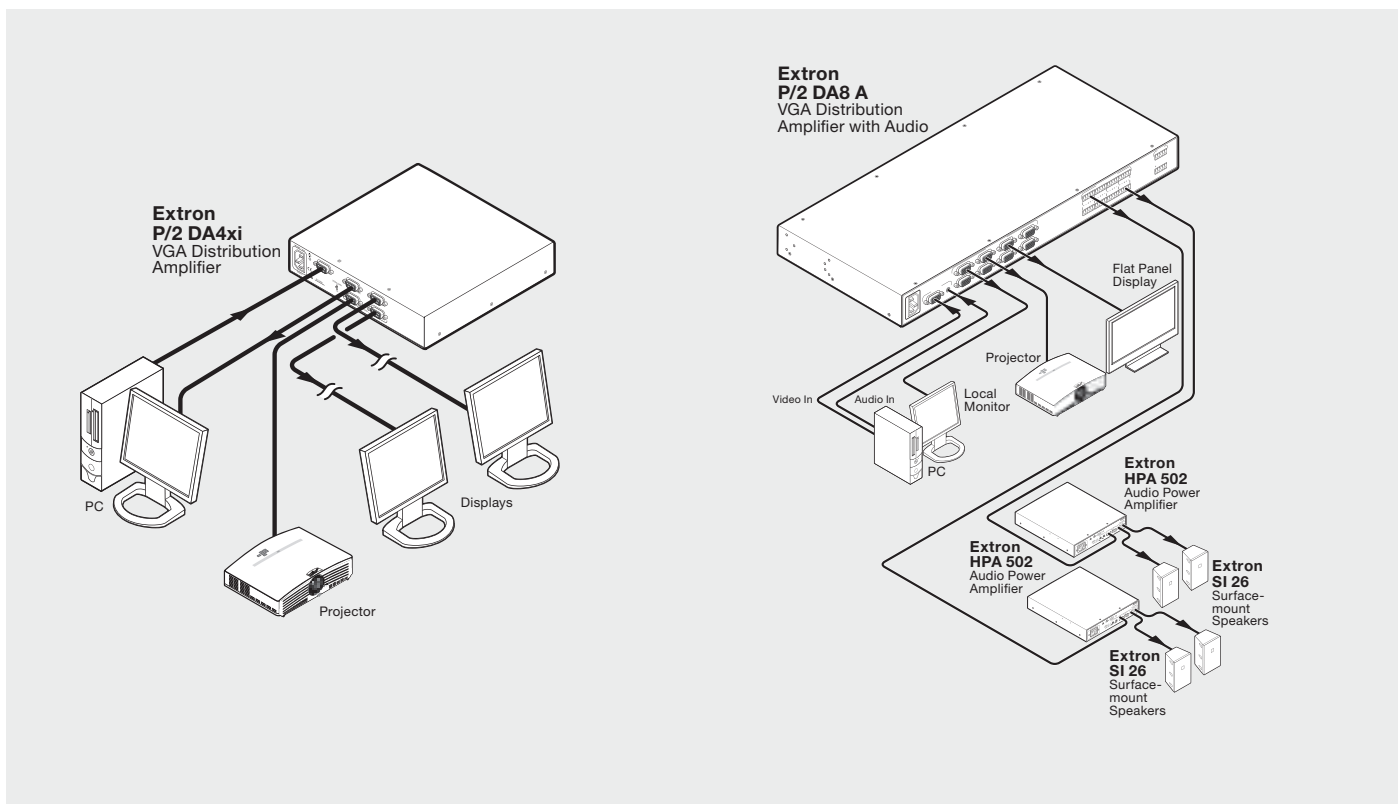
- **Video gain switch** – Provides signal boost to maintain video signal integrity over long cable runs.

### P/2 DA8 AND P/2 DA12

- **Individual output muting via contact closure** – Mute any one or all outputs with simple pushbutton or relay control.
- **Selectable input and output sync impedance** – Sync impedance can be set for optimum compatibility with a wide range of laptop computers.

### P/2 DA8 A AND P/2 DA12 A

- **Active PC audio buffering** – Converts unbalanced PC audio to a balanced, line level signal, eliminating noise over long cable runs.
- **Individual output muting via contact closure** – Mute any one or all audio outputs with simple pushbutton or relay control.
- **Selectable input and output sync impedance** – Sync impedance can be set for optimum compatibility with a wide range of laptop computers.



<b>VIDEO</b>	
Gain	
P/2 DA4/6 xi	0 dB or +3 dB (when input is 0.7 Vp-p, output is 0.7 V or 1.0 V), switchable
P/2 DA8/12 Series	Unity
Bandwidth	350 MHz (-3 dB), fully loaded
<b>VIDEO INPUT</b>	
Number/signal type	1 VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video
Nominal level	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	15 kHz to 135 kHz
Vertical frequency	30 Hz to 150 Hz
Return loss	<-40 dB @ 5 MHz
Input coupling	DC
<b>VIDEO OUTPUT</b>	
Number/signal type	4, 6, 8, or 12 (depending on model) VGA-QXGA RGBHV, RGBS, RGsB, RsGsBs, HDTV component video, S-video, composite video (follows input type)
Connectors	4, 6, 8, or 12 female 15-pin HD
Nominal level	1.0 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.3 V to 1.5 Vp-p (follows input)
Return loss	<-40 dB @ 5 MHz
DC offset	±5 mV with input at 0 offset
<b>SYNC</b>	
Input type	RGBHV, RGBS, RGsB, RsGsBs; bi-level and tri-level sync
Output type	
P/2 DA4/6 xi	RGBHV, RGBS, RGsB, RsGsBs; bi-level and tri-level sync (follows input)
P/2 DA8/12 Series	RGBHV, RGBS, RGsB, RsGsBs; bi-level and tri-level sync (follows input) Tri-level on Y, R-Y, B-Y channels (component video 720p, 1080i, 1080p) Bi-level on Y channel (for all other component video rates)
Input level	2.0 V to 5.0 Vp-p
Output level	
P/2 DA4/6 xi	TTL: 5.0 Vp-p, unterminated
P/2 DA8/12 Series	0.3 Vp-p for component video (bi-level sync) 0.6 Vp-p for component video (tri-level sync) TTL: 5.0 Vp-p, unterminated for RGBHV, RGBS
Input impedance	
P/2 DA4/6 xi	510 ohms
P/2 DA8/12 Series	10k ohms or 510 ohms (default), selectable
Output impedance	
P/2 DA4/6 xi	50 ohms
P/2 DA8/12 Series	50 ohms (default) or 75 ohms, selectable
Max. propagation delay	
P/2 DA4/6 xi	60 ns
P/2 DA8/12 Series	>90 ns
Max. rise/fall time	2 ns
Polarity	Positive or negative (follows input)
<b>AUDIO — P/2 DA8 A, P/2 DA12 A</b>	
Gain	Unbal. output: 0 dB; bal. output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.2 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Crosstalk	<-45 dB @ 1 kHz
Stereo channel separation	>80 dB @ 1 kHz

<b>AUDIO INPUT— P/2 DA8 A, P/2 DA12 A</b>		
Impedance	>10k ohms unbalanced, DC coupled	
Nominal level	-10 dBV (316 mVrms)	
Maximum level	+16 dBu, (unbalanced) at 1% THD+N 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV 2 dBu	
<b>AUDIO OUTPUT – P/2 DA8 A, P/2 DA12 A</b>		
Number/signal type	8 or 12 (depending on model) stereo, bal./unbal.	
Connectors	(8) or (12) 3.5 mm captive screw connectors, 5 pole	
Impedance	50 ohms unbal., 100 ohms bal.	
Gain error	±0.1 dB channel to channel	
Maximum level (Hi-Z)	>+28 dBu, bal., >+20 dBV unbal. at 1% THD+N	
Maximum level (600 ohm)	>+21 dBm, bal., >+18 dBm unbal. at 1% THD+N	
<b>CONTROL/REMOTE – P/2 DA8 Series, P/2 DA12 Series</b>		
Contact closure mute control	(2) 3.5 mm captive screw connectors, 4 pole and (2) 3.5 mm captive screw connectors, 3 pole Contact closure pin configurations	
P/2 DA8 Series	A = mute all outputs, 1 = mute output 1, 2 = mute output 2, 3 = mute output 3, 8 = mute output 8	
P/2 DA12 Series	A = mute all outputs, 1 = mute output 1, 2 = mute output 2, 3 = mute output 3, 12 = mute output 12	
<b>GENERAL</b>		
Power		
P/2 DA4/6 xi	100 VAC to 240 VAC, 50/60 Hz, 12 watts, internal	
P/2 DA8/12 Series	100 VAC to 240 VAC, 50/60 Hz, 30 watts, internal	
Cooling	Convection, no vents	
Mounting - Rack mount		
P/2 DA4/6 xi	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, part #60-190-01; RSB 129, 60-604-01); or 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10)	
P/2 DA8/12 Series	Yes, with included brackets, MBD 149, part #70-077-03	
Furniture mount		
P/2 DA4/6 xi	Yes, with optional under-desk mounting kit, part #70-077-01 (MBU 125); or through-desk mounting kit, part #70-077-02 (MBD 129)	
P/2 DA8/12 Series	Yes, with optional under-desk mounting kit MBU 149, part #70-222-01	
Enclosure dimensions		
P/2 DA4/6 xi	1.6" H x 8.7" W x 6.0" D (1U high, half rack wide) (4.1 cm H x 22.1 cm W x 15.2 cm D)(Depth excludes connectors.)	
P/2 DA8/12 Series	1.7" H x 17.4" W x 8.5" D (1U high, full rack wide) (4.3 cm H x 44.2 cm W x 21.6 cm D) (Depth excludes connectors.)	
Product weight		
P/2 DA4/6 xi	2.0 lbs (0.9 kg)	
P/2 DA8/12 Series	6.0 lbs (2.7 kg)	
Shipping weight		
P/2 DA4xi	4 lbs (2 kg)	
P/2 DA6xi	5 lbs (3 kg)	
P/2 DA8/12 Series	9 lbs (5 kg)	
DIM weight (P/2 DA8/12 Series)		
USA/Canada	10 lbs (5 kg)	
International	11 lbs (5 kg)	
Listings	UL, CUL	
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES	
<b>NOTE:</b> All nominal levels are at ±10%.		
Model	Version Description	Part Number
P/2 DA4xi	1x4 VGA-QXGA	60-246-03
P/2 DA6xi	1x6 VGA-QXGA	60-245-03
P/2 DA8 A	1x8 VGA-QXGA with Audio	60-891-01
P/2 DA8	1x8 VGA-QXGA	60-891-02
P/2 DA12 A	1x12 VGA-QXGA with Audio	60-893-01
P/2 DA12	1x12 VGA-QXGA	60-893-02

Specifications are subject to change without notice.

# PANEL DRAWINGS



P/2 DA4xi - Front



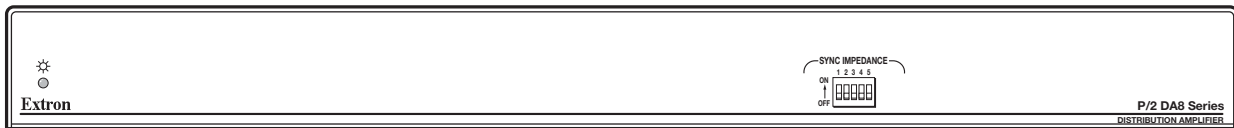
P/2 DA4xi - Back



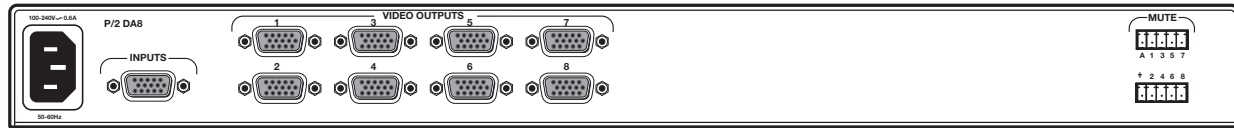
P/2 DA6xi - Front



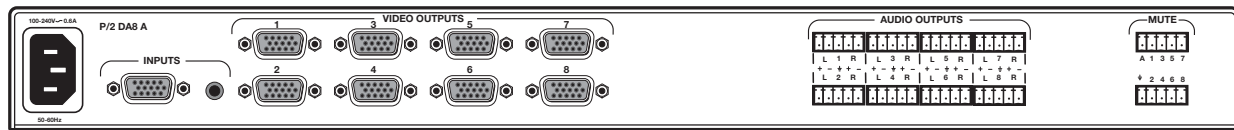
P/2 DA6xi - Back



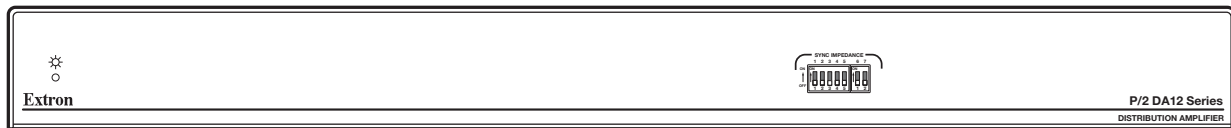
P/2 DA8 & P/2 DA8 A - Front



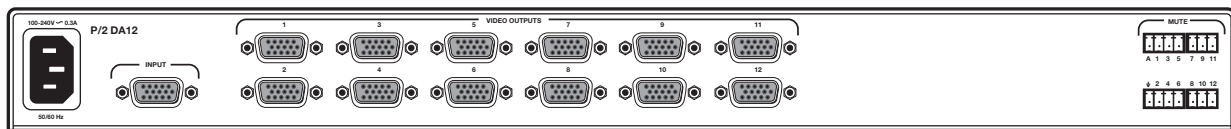
P/2 DA8 - Back



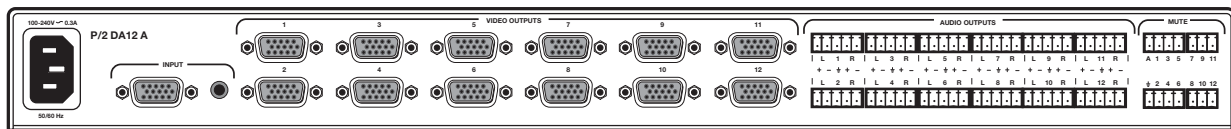
P/2 DA8 A - Back



P/2 DA12 & P/2 DA12 A - Front



P/2 DA12 - Back



P/2 DA12 A - Back



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